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21 [Distributed file systems: concepts and examples](#)



Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: [pdf\(5.33 MB\)](#)

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The purpose of a distributed file system (DFS) is to allow users of physically distributed comput share data and storage resources by using a common file system. A typical configuration for a I collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both da con ...

22 [Cluster resource management: An integrated experimental environment for distributed sys and networks](#)



Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hible Barb, Abhijeet Joglekar

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: [pdf\(2.10 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Three experimental environments traditionally support network and distributed systems researc network emulators, network simulators, and live networks. The continued use of multiple appro highlights both the value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approaches, allowing researchers to configure and networks composed of emulated, simulated, and wide-area nodes and links. Netbed's primary g ease ...

23 [Link and channel measurement: A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approach: wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: [pdf\(6.06 MB\)](#)

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Physical layer wireless network emulation has the potential to be a powerful experimental tool.